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### COMBINED DECLARATION AND POWER OF ATTORNEY

As a below nan	ned inventor, I hereby declare that:
This declaration	is of the following type:
[X] [ ] [ ] [ ]	original divisional continuation continuation-in-part
•	INVENTORSHIP IDENTIFICATION
and sole invento	ost office address and citizenship are as stated below next to my name. I believe I am the original, first r (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) atter which is claimed and for which a patent is sought on the invention entitled:
	INTEGRATED MULTI-STEP GAP FILL AND ALL FEATURE PLANARIZATION FOR CONDUCTIVE MATERIALS
	SPECIFICATION IDENTIFICATION
The specification	n of which:
[X] [] []	is attached hereto was filed on , under Serial No. , executed on even date herewith; or Express Mail No.(as Serial No. not yet known) and was amended on (if applicable) was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on
A	CKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR
	at I have reviewed and understand the contents of the above-identified specification, including the claims, my amendment referred to above.
	e duty to disclose all information I know to be material to patentability in accordance with Federal Regulations, §1.56,
	terial to the examination of this application; namely, information where there is a substantial likelihood Examiner would consider it important in deciding whether to allow the application to issue as a patent,
[]	In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

### PRIORITY CLAIM (35 U.S.C. §119)

I hereby claim foreign priority b	benefits under	Title 35,	United	States	Code,	§119,	of any	provisional	or	foreign
application(s) for patent or inventor										
other than the United States of	America listed	below, a	and have	also	identific	ed belo	w any	provisional	or	foreign
application(s) for patent or invento										
other than the United States of Ar		me on th	e same s	ubject	matter	having	a filing	date before	tha	t of the
application(s) of which priority is c	laimed.									

	[X]	No such ap	plications have been filed.		
	[]	Such applie	cations have been filed as f	ollows:	
Α.			application(s) filed withi ler 35 U.S.C. §119	n 12 mos. (6 mos. for o	design) prior to this application, and any
	Count	ry/PCT	Application No	Date Filed	Priority Claimed
					[ ] Yes [ ] No [ ] Yes [ ] No [ ] Yes [ ] No
В.		ign application	tion(s), if any, filed more	than 12 mos. (6 mos fo	or design) prior to this
	Country Applica Filing da	tion No:			
C.	U.S. Pro	ovisional Ap	oplication filed within 12	months prior to this ap	pplication
	Serial N	<u>lo.</u>	Fi	ling Date	•
			PRIORITY CLA	AIM (35 U.S.C. §120)	
internation matter of the first	onal appl f each of paragrapl	lication(s) d the claims o h of Title 35	esignating the United Stat of this application is not dis , United States Code, §112	tes of America that is/a sclosed in that/those pri- te. I acknowledge the du	any United States application(s) or PCT are listed below and, insofar as the subject or application(s) in the manner provided by ty to disclose information that is material to ntial likelihood that a reasonable Examiner

would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the

Pending

**Abandoned** 

filing date of the prior application(s) and the national or PCT international filing date of this application.

No such applications have been filed

Filing Date

Such applications have been filed, as follows:

[]

Serial No.

Patented

#### **POWER OF ATTORNEY**

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken Registration No. 33,217
Michael B. Einschlag Registration No. 29,301

Peter J. Sgarbossa Registration No. 25,610

Lawrence Edelman Registration No. 25,226
Michael L. Sherrard Registration No. 28,041

Raymond Kam-On Kwong Registration No. 37,165

James C. Wilson
Registration No. 35,412
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Registration No. 25,436
Sarah J. Brashears
Registration No. 37,087
B. Todd Patterson
Raymond R. Moser, Jr.
Registration No. 34,682
Keith M. Tackett
Registration No. 32,008

Send correspondence to: Direct telephone calls to:

Patent Counsel B. Todd Patterson

Applied Materials, Inc. THOMASON, MOSER & PATTERSON, L.L.P. P.O. Box 450-A (713) 623-4844

P.O. Box 450-A (713) 623-484 Santa Clara, CA 95052

#### **DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or first invente	or: WEI-YUNG HSU	
Inventor's signature: Residence:	4501 Carlyle Court, Apt. #1104	Date: (>/6/00
	Santa Clara, California 95054	•
Post Office Address:	Same as above. U.S.A.	Country of Citizenship: TAIWAN
		,
Full name of second inventor:	LIANG-YUH CHEN	Date: 12/06/00
Inventor's signature:		Date:
Residence:	1400 Melbourne Street	
	Foster City, California 94404	
Post Office Address:	Same as above.	
	U.S.A.	Country of Citizenship: TAIWAN

Full name of third inventor:	RATSON MORAD	
Inventor's signature:	in Minul	Date: 12/6/00
Residence:	4157 Solana Drive	, - (
	Palo Alto, California 94306	
Post Office Address:	Same as above.	
1 031 011100 1 1001000.	U.S.A.	Country of Citizenship: ISRAEL
	U.S.A.	Country of Citizenship. ISRAEL
Full name of fourth inventor:	DANIEL A. GARL	
.1/		-1 -1 -1
Inventor's signature:	L. V (V (1	Date: 12/13/00
Residence:	2161 Pomezia Court	
Mostadiio.	Pleasanton, California 94566	
Post Office Address:	Same as above.	
Post Office Address.		Country of Citinanahin, II C A
	U.S.A.	Country of Citizenship: U.S.A.
Full name of fifth inventor:	SASSON SOMEKH .	•
		. 1 - 1
Inventor's signature:	ann Son alla	Date: 12 7/00
Residence:	25625 Moody Road	
Residence.	•	
	Los Altos Hills, California 94022	•
Post Office Address:	Same as above.	0
	U.S.A.	Country of Citizenship: U.S.A.

(Declaration ends with this page)

		ATTY, DKT. NO. AMAT/5614.D1/CMP/CMP/RH
FORM PTC-1585 (Rox 6.03) OMB No. 0651-0611 (exp. 4/94)	1	FORM COVER SHEET U.S. Department of Continuation VTS ONLY U.S. Department of Continuation Patent And Transment office
To the Honorable Commiss		ord the attached original document or copy thereof.
1. Name of conveying party	/(ies);	Name and address of receiving party(les):
WEI-YUNG HSU LIANG-YUH CHEN RATSON MORAD DANIEL A. CARL SASSON SOMEKH	Date December 6, 2000 December 6, 2000 December 6, 2000 December 13, 2000 December 8, 2000	Name: Applied Materials, Inc.  Internal Address: P.O. Box 450-A
_	ying party(ies) attached? X Yes No	Street Address:
3. Nature of conveyance:		
X Assignment	Merger	City: Santa Clara State: CA Zip: 95052
Security Agreement Other	Change of Name	Additional name(s) & address(es) attached?Yes _X_ No
	See Above and the Attached	
A. Patent Application No.(s  B. Patent No.(s)		tion date of the application is: <u>March 3, 2004 (</u> Date of Filing)
document should be malle	<b>~·</b>	Total number of applications and patents involved: 1
Name:A	Patent Counsel PPLIED MATERIALS, INC.	7. Total fee (37 C.F.R. 3.41) \$_40.00 Enclosed  X_ Authorized to be charged to deposit account
Street Address;City: _Santa Clara	P.O. Box 450-A  State: <u>CA</u> Zip: <u>95052</u>	8. Deposit account number: 50-1074/5814,D1/CMP/CMP/RKK
	DO NOT USE 1	THIS SPACE
Statement and signature. To the best of my knowledge Robert W. Mulcahy Reg. No Name of Person Signing	Signature	number of pages including cover sheet, attachments and document.

		ATTY, DKT, NO. /	AMAT/5814.D1/CMP/CMP/RKI
FORM PTC-15ed (Ray 645) QMB No. 0651-0611 (ray, 454)	1	ORM COVER SHEET TB ONLY	U.B. Department of Continents Patent And Tenderreck Office
	sioner of Patents and Trademarks: Please recor		orf
1. Name of conveying part		Name and address of receiving party(les	
WEI-YUNG HSU LIANG-YUH CHEN RATSON MORAD DANIEL A. CARL SASSON SOMEKH	Date December 6, 2000 December 6, 2000 December 6, 2000 December 13, 2000 December 8, 2000	Name: Applied Materia Internal Address: P.O. Box 450-A	
Additional name(s) of conve	eying party(ies) attached? X Yes _ No	Street Address:	
Nature of conveyance:     X Assignment	Merger	City: Santa Clara State: (	<u>CA</u> Zip: 95052
Security Agreement		Additional name(s) & address(es) attached?	`
	See Above and the Attached	8	
A. Patent Application No. B. Patent No.(s)	filed together with a new application, the exacults)  (s)  Tubers attached? Yes _X_ No	ion date of the application is: March 3, 2004 (C	ate of Filing)
<ol><li>Name and address of par document should be malle</li></ol>	ty to whom correspondence concerning ed:	6. Total number of applications and patents	involved: 1
	Patent Counsel  APPLIED MATERIALS, INC.	7. Total fee (37 C.F.R. 3.41)  Enclosed  X_ Authorized to be charged to deposit ac	
Street Address:	P.O. Box 450-A  State: <u>CA</u> Zip: <u>95052</u>	8. Deposit account number: 50-1074/5814.D1/CMP/CMP/RKK	
	DO NOT USE 7	HIS SPACE	
Statement and signature.     To the best of my knowledged     Robert W. Mulcahy Reg. Nowledged Person Signing	ge and bellef, the foregoing information is true and bellef, the foregoing information is true and bellef. Signature	20	py of the original document,  2/3/04  Date  hments and document: _3

#### ASSIGNMENT FOR APPLICATION FOR PATENT

#### WHEREAS:

#### Names and Addresses of Inventors:

1)	WEI-YUNG HSU 4501 Carlyle Court, Apt. #1104 Santa Clara, California 95054	2)	LIANG-YUH CHEN 1400 Melbourne Street Foster City, California 94404
3)	RATSON MORAD 4157 Solana Drive Palo Alto, California 94306	4)	DANIEL A. CARL 2161 Pomezia Court Pleasanton, California 94566
5)	SASSON SOMEKH 25625 Moody Road Los Altos Hills, California 94022		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

# INTEGRATED MULTI-STEP GAP FILL AND ALL FEATURE PLANARIZATION FOR CONDUCTIVE MATERIALS

for which application for Letters Patent in the United States was filed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or

desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>12/06</u> , 2000	Mary the
	12/06	WEI-YUNG HSU V
2)		LIANG-YUH CHEN /
3)	<u>12/6</u> , 2000	RATSON MORAD
4)	12/13	10.DM
4)	12 P , 2000	SASSON SOMERH